

Purpose of Mechanical Permits

- Gas appliances represent a significant threat to life safety and property damage if installed improperly as follows:
 - Improper flue installation could result in a house fire or CO poisoning
 - Improper combustion air will result in wasted fuel and furnace malfunctioning in addition to potential CO poisoning
 - A leaky gas piping installation could result in an explosion
 - Improper gas supply through furnace cabinet could result in a belated explosion
 - Inadequate bonding (grounding) of corrugated stainless steel gas piping could result in an explosion
 - Improper equipment placement in proximity of bedrooms
- Hot Water Heaters need to be checked for:
 - Proper installation of earthquake straps
 - Proper pressure relief valve drains to prevent scalding and/or flooding
 - Garage installations elevated above the floor to prevent explosions except for those with flammable vapor ignition resistant (FVIR) burners
- Check for properly safety listed and labeled equipment (UL, for instance)
- Check for proper clearances from combustible construction, walls, floors and ground surfaces
- Check to ensure adequate access and lighting for periodic maintenance and filter changes
- Garage mechanical installations need to be protected from vehicle damage
- Check for duct leak testing where significant portion of ductwork is located in unheated spaces
- If an installer knows the work will be inspected, they tend to pay closer attention to details